

Comparisons of Job Characteristics

Focus Occupation: [Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders \(51-9051\)](#)
Associated Occupation: [Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic \(51-4191\)](#)

[Compare Knowledge](#)
[Compare Skills](#)
[Compare Abilities](#)
[Compare Detailed Work Activities](#)
[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: [Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders \(51-9051\)](#)

Associated Occupation: [Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic \(51-4191\)](#)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Production and Processing	6.0	8.6	15.7	>>	Current knowledge level is likely more than sufficient
Chemistry	4.8	7.3	6.1	<	Expanded education and/or training may be required
Physics	4.3	6.1	6.2	0	Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 81

Focus Occupation: [Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders \(51-9051\)](#)

Associated Occupation: [Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic \(51-4191\)](#)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation and Control	5.4	12.0	9.7	<	A higher skill level may be required
Operation Monitoring	6.6	11.8	13.7	>	Skill level is likely sufficient
Equipment Maintenance	3.5	8.9	2.7	<<	Extensive development of skills in this area may be required
Repairing	3.4	8.1	2.0	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	7.3	3.1	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	6.7	1.9	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 78			
Focus Occupation: Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders (51-9051) Associated Occupation: Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Reaction Time	4.8	11.6	9.3	<	Some improvement in abilities may be required
Selective Attention	8.7	11.4	10.3	<	Some improvement in abilities may be required
Multilimb Coordination	6.0	10.8	8.2	<<	Extensive improvement in abilities may be required
Static Strength	5.0	10.8	7.9	<<	Extensive improvement in abilities may be required
Rate Control	3.8	9.5	6.1	<<	Extensive improvement in abilities may be required
Stamina	4.0	8.9	5.6	<<	Extensive improvement in abilities may be required
Response Orientation	4.0	8.8	4.0	<<	Extensive improvement in abilities may be required
Speed of Limb Movement	3.2	7.1	3.7	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 81
Focus Occupation: Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders (51-9051) Associated Occupation: Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)		
Work Activities	Exclusivity of Activity	
Adjust production equipment/machinery setup	25	
Clean equipment or machinery	20	
Examine products or work to verify conformance to specifications	15	
Load or unload material or workpiece into machinery	34	
Maintain or repair industrial or related equipment/machinery	39	
Maintain production or work records	19	
Move or fit heavy objects	8	
Operate hoist, winch, or hydraulic boom	34	
Operate metal or plastic fabricating equipment/machinery	54	
Read work order, instructions, formulas, or processing charts	9	
Test manufactured products or materials	64	

Understand technical operating, service or repair manuals	6
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders (51-9051)

Associated Occupation: Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)

Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.